

Table
Summary of Water Treatment System Chemical Analytical Data
Avery Landing Site
Avery, Idaho

Sample ID	Discharge Limit ¹ (µg/L)	TS-IN-05302013 (SWE0213-01)	TS-IN2-05302013 (SWE0213-03)	TS-IN3-05302013 (SWE0213-05)	TS-IN-06032013 (SWF0025-01)	TS-IN2-06032013 (SWF0025-03)
Sample Type		Startup Testing Batch 1 Influent	Startup Testing Batch 2 Influent	Startup Testing Batch 3 Influent	Startup Testing Batch 4 Influent	Startup Testing Batch 5 Influent
Metals						
Arsenic	10	16	16	16	9.1	9.2
Cadmium	0.6	0.4 U				
Copper	11	51	49	20	3.7	5.8
Lead	2.5	22	18	15	1.9	3.4
Mercury	0.012	0.2 U				
Thallium	0.24	0.4 U	1 U	1 U	1 U	1 U
Zinc	120	84	67	35	7.7	14
Semivolatile Organic Compounds (SVOCs)						
bis(2-Ethylhexyl)phthalate	1.2	9.1	1.5 J	1.1 UJ	1.8 J	2.5 J
n-Nitrosodiphenylamine	3.3	0.095 U	0.24 J	0.17	0.0095 UJ	0.0095 UJ
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)						
Benzo[a]anthracene	0.0038	0.019	0.031	0.018	0.019 U	0.019 U
Benzo[a]pyrene	0.0038	0.013	0.014	0.0084	0.019 U	0.019 U
Benzo[b]fluoranthene	0.0038	0.019	0.031	0.02	0.019 U	0.019 U
Benzo[k]fluoranthene	0.0038	0.0069	0.0047	0.005	0.019 U	0.019 U
Chrysene	0.0038	0.047	0.093	0.042	0.019 U	0.027
Polychlorinated Biphenyls (PCBs)						
Total PCBs (sum of Aroclors)	0.000064	0.194 U	0.193 U	0.193 U	0.19 U	0.19 U

Notes:

¹Surface water screening level referenced from December 2010 Draft Final Engineering Evaluation/Cost Analysis (E&E, 2010).

µg/L = microgram per kilogram

U = Analyte not detected above the reporting limit.

J = Estimated result.

 Non-detect analyte concentration is greater than screening level.

 Analyte detected at a concentration exceeding the screening level.

Bold indicates positive detection.

Chemical analyses performed by Test America of Spokane, Washington and/or Analytical Resources Inc. of Tukwila, Washington.

Table
Summary of Water Treatment System Chemical Analytical Data
Avery Landing Site
Avery, Idaho

Sample ID	Discharge Limit ¹ (µg/L)	TS-IN-06112013 (SWF0072-01)	TS-IN2-06112013 (SWF0072-03)	TS-IN3-06112013 (SWF0072-05)	TS-IN4-06112013 (SWF0073-01)	TS-IN5-06112013 (SWF0073-03)
Sample Type		Startup Testing Batch 6 Influent	Startup Testing Batch 7 Influent	Startup Testing Batch 8 Influent	Startup Testing Batch 9 Influent	Startup Testing Batch 10 Influent
Metals						
Arsenic	10	11	10	10	12	8.6
Cadmium	0.6	0.4 U				
Copper	11	9.3	7.6	5.9	11	6.1
Lead	2.5	9.6	8.3	6.8	12	7.5
Mercury	0.012	0.2 U				
Thallium	0.24	1 U	1 U	1 U	1 U	1 U
Zinc	120	28	23	16	25	12
Semivolatile Organic Compounds (SVOCs)						
bis(2-Ethylhexyl)phthalate	1.2	2.9 UJ	2.9 UJ	2.5 J	2.9 U	2.9 U
n-Nitrosodiphenylamine	3.3	1.9 U	1.9 U	1.9 U	0.38 U	0.38 U
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)						
Benzo[a]anthracene	0.0038	0.019 U	0.019 U	0.019 U	0.035	0.028
Benzo[a]pyrene	0.0038	0.019 U				
Benzo[b]fluoranthene	0.0038	0.019 U	0.019 U	0.019 U	0.03	0.028
Benzo[k]fluoranthene	0.0038	0.019 U				
Chrysene	0.0038	0.021	0.024	0.024	0.077	0.063
Polychlorinated Biphenyls (PCBs)						
Total PCBs (sum of Aroclors)	0.000064	0.192 U	0.192 U	0.19 U	0.19 U	0.19 U

Notes:

¹Surface water screening level referenced from December 2010 Draft Final Engineering Evaluation/Cost Analysis (E&E, 2010).

µg/L = microgram per kilogram

U = Analyte not detected above the reporting limit.

J = Estimated result.

■ Non-detect analyte concentration is greater than screening level.

■■■ Analyte detected at a concentration exceeding the screening level.

Bold indicates positive detection.

Chemical analyses performed by Test America of Spokane, Washington and/or Analytical Resources Inc. of Tukwila, Washington.

Table
Summary of Water Treatment System Chemical Analytical Data
Avery Landing Site
Avery, Idaho

Sample ID	Discharge Limit ¹ (µg/L)	TS-IN-06182013 (WU75A/WU76A)	TS-IN2-06182013 (WU75C/WU76C)	TS-IN-06192013 (WU75E/WU76E)	TS-IN2-06192013 (WU75G/WU76G)	TS-IN3-06192013 (WU75I/WU76I)
Sample Type		Startup Testing Batch 11 Influent	Startup Testing Batch 12 Influent	Startup Testing Batch 13 Influent	Startup Testing Batch 14 Influent	Startup Testing Batch 15 Influent
Metals						
Arsenic	10	16.1	13.5	13.2	17	15.3
Cadmium	0.6	0.1 U				
Copper	11	16.5	9.4	7.8	9.1	8.2
Lead	2.5	12	6.4	3.9	4.7	4.3
Mercury	0.012	0.2 U				
Thallium	0.24	0.2 U				
Zinc	120	37	20	19	21	18
Semivolatile Organic Compounds (SVOCs)						
bis(2-Ethylhexyl)phthalate	1.2	0.8 J	0.6 J	3 U	3 U	3 U
n-Nitrosodiphenylamine	3.3	1 U	1 U	1 U	1 U	1 U
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)						
Benzo[a]anthracene	0.0038	0.038	0.011	0.01 U	0.01 U	0.01 U
Benzo[a]pyrene	0.0038	0.026	0.005 J	0.01 U	0.01 U	0.01 U
Benzo[b]fluoranthene	0.0038	0.03	0.0082 J	0.0051 J	0.0075 J	0.0074 J
Benzo[k]fluoranthene	0.0038	0.014	0.01 U	0.01 U	0.01 U	0.01 U
Chrysene	0.0038	0.071	0.03	0.012	0.02	0.021
Polychlorinated Biphenyls (PCBs)						
Total PCBs (sum of Aroclors)	0.000064	0.025 UY	0.01 U	0.01 U	0.01 U	0.01 U

Notes:

¹Surface water screening level referenced from December 2010 Draft Final Engineering Evaluation/Cost Analysis (E&E, 2010).

µg/L = microgram per kilogram

U = Analyte not detected above the reporting limit.

J = Estimated result.

■ Non-detect analyte concentration is greater than screening level.

■ Analyte detected at a concentration exceeding the screening level.

Bold indicates positive detection.

Chemical analyses performed by Test America of Spokane, Washington and/or Analytical Resources Inc. of Tukwila, Washington.

Table
Summary of Water Treatment System Chemical Analytical Data
Avery Landing Site
Avery, Idaho

Sample ID	Discharge Limit ¹ (µg/L)	TS-EF-05302013 (SWE0213-02)	TS-EF2-05232013 (SWE0213-04)	TS-EF3-05302013 (SWE0213-06)	TS-EF-06032013 (SWF0025-02)	TS-EF2-06032013 (SWF0025-04)
		Startup Testing Batch 1 Effluent	Startup Testing Batch 2 Effluent	Startup Testing Batch 3 Effluent	Startup Testing Batch 4 Effluent	Startup Testing Batch 5 Effluent
Metals						
Arsenic	10	29	4.4	5.4	7.7	7.4
Cadmium	0.6	0.87	0.4 U	0.4 U	0.4 U	0.4 U
Copper	11	7,600	1 U	8.1	1.3	8.2
Lead	2.5	960	0.55	0.78	0.47	5.6
Mercury	0.012	0.2 U				
Thallium	0.24	10 U	1 U	1 U	1 U	1 U
Zinc	120	4,800	10	7.4	3.7	33
Semivolatile Organic Compounds (SVOCs)						
bis(2-Ethylhexyl)phthalate	1.2	1.1 UJ	15	1.1 UJ	1.1 UJ	1.1 UJ
n-Nitrosodiphenylamine	3.3	0.095 UJ	0.094 UJ	0.094 UJ	0.094 UJ	0.096 UJ
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)						
Benzo[a]anthracene	0.0038	0.0038 U	0.0038 U	0.0038 U	0.019 U	0.019 U
Benzo[a]pyrene	0.0038	0.0038 U	0.0038 U	0.0038 U	0.019 U	0.019 U
Benzo[b]fluoranthene	0.0038	0.0038 U	0.0038 U	0.0038 U	0.019 U	0.019 U
Benzo[k]fluoranthene	0.0038	0.0038 U	0.0038 U	0.0038 U	0.019 U	0.019 U
Chrysene	0.0038	0.0038 U	0.0038 U	0.0038 U	0.019 U	0.019 U
Polychlorinated Biphenyls (PCBs)						
Total PCBs (sum of Aroclors)	0.000064	0.189 U	0.189 U	0.19 U	0.189 U	0.189 U

Notes:

¹Surface water screening level referenced from December 2010 Draft Final Engineering Evaluation/Cost Analysis (E&E, 2010).

µg/L = microgram per kilogram

U = Analyte not detected above the reporting limit.

J = Estimated result.

 Non-detect analyte concentration is greater than screening level.

 Analyte detected at a concentration exceeding the screening level.

Bold indicates positive detection.

Chemical analyses performed by Test America of Spokane, Washington and/or Analytical Resources Inc. of Tukwila, Washington.

Table
Summary of Water Treatment System Chemical Analytical Data
Avery Landing Site
Avery, Idaho

Sample ID	Discharge Limit ¹ (µg/L)	TS-EF-06112013 (SWF0072-02)	TS-EF2-06112013 (SWF0072-04)	TS-EF3-06112013 (SWF0072-06)	TS-EF4-06112013 (SWF0073-02)	TS-EF5-06112013 (SWF0073-04)
Sample Type		Startup Testing Batch 6 Effluent	Startup Testing Batch 7 Effluent	Startup Testing Batch 8 Effluent	Startup Testing Batch 9 Effluent	Startup Testing Batch 10 Effluent
Metals						
Arsenic	10	4.8	3.9	3.2	3.3	3.1
Cadmium	0.6	0.4 U				
Copper	11	1.3	8.2	1.8	3	1.9
Lead	2.5	0.96	2.6	1.4	0.66	0.87
Mercury	0.012	0.2 U				
Thallium	0.24	1 U	1 U	1 U	1 U	1 U
Zinc	120	3.8	11	6.7	4.7	5.2
Semivolatile Organic Compounds (SVOCs)						
bis(2-Ethylhexyl)phthalate	1.2	2.9 U	2.9 U	2.9 U	2.9 U	2.8 U
n-Nitrosodiphenylamine	3.3	1.9 U	1.9 U	1.9 U	0.38 U	0.38
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)						
Benzo[a]anthracene	0.0038	0.019 U				
Benzo[a]pyrene	0.0038	0.019 U				
Benzo[b]fluoranthene	0.0038	0.019 U				
Benzo[k]fluoranthene	0.0038	0.019 U				
Chrysene	0.0038	0.019 U				
Polychlorinated Biphenyls (PCBs)						
Total PCBs (sum of Aroclors)	0.000064	0.19 U	0.19 U	0.19 U	0.19 U	0.191 U

Notes:

¹Surface water screening level referenced from December 2010 Draft Final Engineering Evaluation/Cost Analysis (E&E, 2010).

µg/L = microgram per kilogram

U = Analyte not detected above the reporting limit.

J = Estimated result.

 Non-detect analyte concentration is greater than screening level.

 Analyte detected at a concentration exceeding the screening level.

Bold indicates positive detection.

Chemical analyses performed by Test America of Spokane, Washington and/or Analytical Resources Inc. of Tukwila, Washington.

Table
Summary of Water Treatment System Chemical Analytical Data
Avery Landing Site
Avery, Idaho

Sample ID	Discharge Limit ¹ (µg/L)	TS-EF-06182013 (WU75B/WU76B)	TS-EF2-06182013 (WU75D/WU76D)	TS-EF-06192013 (WU75F/WU76F)	TS-EF2-06192013 (WU75H/WU76H)	TS-EF3-06192013 (WU75J/WU76J)
Sample Type		Startup Testing Batch 11 Influent	Startup Testing Batch 12 Influent	Startup Testing Batch 13 Influent	Startup Testing Batch 14 Influent	Startup Testing Batch 15 Influent
Metals						
Arsenic	10	5.1	5.6	3.6	2.9	2.4
Cadmium	0.6	0.1 U				
Copper	11	0.9	1	1.1	1.2	0.9
Lead	2.5	0.1 U	0.1 U	0.1 U	0.8	0.1 U
Mercury	0.012	0.2 U				
Thallium	0.24	0.2 U				
Zinc	120	4 U	4 U	4 U	6	4 U
Semivolatile Organic Compounds (SVOCs)						
bis(2-Ethylhexyl)phthalate	1.2	3 U	3 U	3 U	3 U	3 U
n-Nitrosodiphenylamine	3.3	1 U	1 U	1 U	1 U	1 U
Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)						
Benzo[a]anthracene	0.0038	0.01 U				
Benzo[a]pyrene	0.0038	0.01 U				
Benzo[b]fluoranthene	0.0038	0.01 U				
Benzo[k]fluoranthene	0.0038	0.01 U				
Chrysene	0.0038	0.01 U				
Polychlorinated Biphenyls (PCBs)						
Total PCBs (sum of Aroclors)	0.000064	0.01 U				

Notes:

¹Surface water screening level referenced from December 2010 Draft Final Engineering Evaluation/Cost Analysis (E&E, 2010).

µg/L = microgram per kilogram

U = Analyte not detected above the reporting limit.

J = Estimated result.

 Non-detect analyte concentration is greater than screening level.

 Analyte detected at a concentration exceeding the screening level.

Bold indicates positive detection.

Chemical analyses performed by Test America of Spokane, Washington and/or Analytical Resources Inc. of Tukwila, Washington.